

RECORD COPY

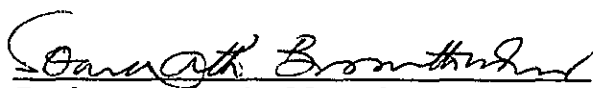
ROY F. WESTON, INC.  
Lionville LaboratoryCLIENT: WESTINGHOUSE HANFORD  
RFW #: 9208L584  
W.O. #: 6168-02-01

SAMPLE(S) RECEIVED: 08-26-92

INORGANIC NARRATIVE

The following is a summary of the quality control results and a description of any problems encountered during the analysis of this batch of samples:

1. All sample holding times as required by 40CFR136 were met.
2. All preparation blank results were below the required detection limit.
3. All calibration verification checks were within the required control limits of 90-110%. Calibration verification is performed using independent standards.
4. Matrix spike recoveries are summarized on the Inorganic Accuracy Report contained within this document. All recoveries were within the 75-125% guidance limits. All %RPD were within the 20% guidance limit.
5. Replicate results are summarized on the Inorganic Precision Report contained within this document. All results were within the 20% RPD guidance limit.
6. The analytical methods applied by the laboratory, unless otherwise requested, for all inorganic analyses are derived from the USEPA Method for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020) and Standard Methods for the Examination of Water and Wastewater 16 ed. Methods for the analysis of solid samples are derived from Test Methods for Evaluating Solid Waste (USEPA SW846).

  
Jack R. Tuschall, Ph.D.  
Laboratory Manager  
Lionville Analytical Laboratory

09.08.92  
Date



ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

CLIENT: WESTINGHOUSE HANFORD  
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9208L584

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
=====	=====	=====	=====	=====	=====
-001	B01900	% Solids	96.0	%	0.10
		Chromium VI	0.10 u	MG/KG	0.10

WLSU  
Page 1 of 1

[illegible]

**Special Instructions:**

Run ① ms/msD

Project-# 100-IV-4/

**DATE/REVISIONS:**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

**WESTON Analytics Use Only**

**Samples were:**

1) Shipped ~~X~~ or  
Hand Delivered

Airbill #

2) Ambient or Chilled

3) Received in Good Condition ☒ Y or N

4) Labels Indicate Properly Preserved

5) Received Within

### 5) Received Within Holding Times

(Y or N)

COC type was:

1) Present on Outer  
Package ( ) or N

2) Unbroken on Outer

3) Present on Sample

4) Unbroken on

Sample (Y)' or N  
GSC Record Present

CCC Record Present  
Upon Sample Rec't  
Y or N

Relinquished by	Received by	Date	Time
Emergency	Brian Shoffner Res 9/8/02	9/26/02	12:50

Discrepancies Between  
Samples Labels and  
COC Record? Y or **N**

FORM OF PAYMENT				SERVICES			
Check <input type="checkbox"/> <input type="checkbox"/>		FCCOD <input type="checkbox"/>		UNITED STATES / CANADA		INTERNATIONAL	
Bill to Shipper <input type="checkbox"/> Bill to Consignee <input type="checkbox"/>				<input type="checkbox"/> Same Day <input checked="" type="checkbox"/> AM <input type="checkbox"/> Second Day		<input type="checkbox"/> Express <input type="checkbox"/> PM <input type="checkbox"/> Saturday Delivery <input type="checkbox"/> Preferred <input type="checkbox"/> Standard	
Shipper's Account Number		EMERY WORLDWIDE		A CF Company		Business Documents <input type="checkbox"/>	
E 8 0281585				Date 08-25-92		Shipment Number 250987008 8	
From: WESTINGHOUSE SHIPPING DEPT (509) 946-6465 U.S. DEPARTMENT OF ENERGY WESTINGHOUSE HANFORD BLDG 1163 2355 STEVENS DRIVE RICHLAND, WA				To: JOSIE KING WESTON LAB 208 WELSH POOL ROAD LIONVILLE PA			
Customer's Reference Numbers W81225 P3C16 W92-0-0577 #37 99352				Consignee's Account Number E 19341			
Description ICE CHEST RM#8 SOIL SAMPLES		Dimensions 1		Total Pieces 1		Total Weight 25	
Remarks OVERNIGHT DELIVERY		Zip Ship <input type="checkbox"/>		Mark if Emery Packaging is used		Declared Value \$	
Shipper's Signature		For shipments within the 50 United States Shipper has the option to check this box and, by checking, agrees that the Zip Ship conditions, described in the area to the right, apply.		Urgent Letter <input type="checkbox"/> Urgent Pack <input type="checkbox"/>		FOR INFORMATION OR RATES CALL 1-800-41 EMERY 1-800-233-6379	
Third Party Account Number		Third Party Account Number		2509870088		Barcode	
Commodity Code		Third Party Account Number		3-PHL-A		Terms and Conditions on Back	
Base Charge		International Customs Value		International Insurance			
		Total Transportation Charges		Other Charges/Insurance at Other			

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Study Form Initiator C.E. HeidenCompany Contact C.E. HeidenTelephone 376-7640Subject Designation/Sampling Locations Selenium DichromateCollection Date 8/24/92Barrel ERA Site 100-14-4Chest No. RM # 8Field Logbook No. EFL-1027Bill of Lading/Airbill No. 250987008 8Offsite Property No. WRA-0-0577 # 37Method of Shipment EmeryShipped to Weston LabPossible Sample Hazards/Remarks —

## Sample Identification

BO1900 - (7) 250 ml Sc. 1

## Field Transfer of Custody

## CHAIN OF POSSESSION

(Sign and Print Names)

Surrendered by: C.E. Heiden

Received by:

Date/Time:

Surrendered by:

Received by:

Date/Time:

Surrendered by:

Received by:

Date/Time:

Surrendered by:

Received by:

Date/Time:

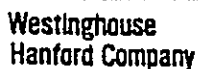
## Final Sample Disposition

Disposal Method:

Disposed by:

Date/Time:

Comments:



92081584

## SAMPLE ANALYSIS REQUEST

## PART I: FIELD SECTION

Collector Paul Valerich Date Sampled 8/24/82 Time        hours  
Company Contact C.E. Heiden Telephone (509) 376-2040

[illegible]

Field Information\*\* Sodium Dichromate Parcel ERA Site 100-III-4  
Priority Turn Around. Run analysis even though holding times are missed.

Special Handling and/or Storage None

### Possible Sample Hazards

## PART II: LABORATORY SECTION

Received by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

**Analysis Required** \_\_\_\_\_

\*Indicate whether sample is soil, sludge, water, etc.

**\*\*Use back of page for additional information relative to sample location.**

**A-6000-406 (05/90)**

Westinghouse Hanford  
Company

CHAIN OF CUSTODY  
00000004

92082584

Study Form Initiator C.E. Heiden

Company Contact C.E. Heiden

Telephone 376-2640

Project Designation/Sampling Locations Sodium Dichromate

Collection Date 8/24/92

Barrel ERA Site 100-14-4

Chest No. RM # 8

Field Logbook No. EFL-1027

Label of Lading/Airbill No. 250987008 8

Offsite Property No. WQA-0-0577 # 37

Method of Shipment Emery

Shipped to Weston Lab

Possible Sample Hazards/Remarks —

Sample Identification

Boilerc - (7) 250 ml Sc. 1

Field Transfer of Custody

CHAIN OF POSSESSION

(Sign and Print Names)

Relinquished by: C.E. Heiden

Received by:

Date/Time:

Relinquished by:

Received by:

Date/Time:

Relinquished by:

Received by:

Date/Time:

Relinquished by:

Received by:

Date/Time:

Final Sample Disposition

Disposal Method:

Disposed by:

Date/Time:

Comments:



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Roy F. Weston, INC.  
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD CO.      SAMPLES RECEIVED: 08/26/92  
RFW #: 9208L584  
W.O. #: 6168-02-01

METALS NARRATIVE

One (1) soil sample was collected on 08/24/92.

The sample and its associated QC samples were analyzed according to criteria set forth in CLP SOW 3/90.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. ICVs, CCVs, and LCSs stock standards were purchased from Inorganic Ventures Laboratory.
2. All ICV and CCV values were within control limits.
3. All ICB and CCB values were within control limits.
4. All preparation blank values were within control limits.
5. All LCS results were within the 80-120% control limits.
6. All matrix spike recoveries were within the 75-125% control limits.
7. All duplicate analyses were within the 20% RPD control limit.
8. Quarterly Detection Limits, ICP Interelement Correction Factors and ICP Linear Ranges for IC3 are included in this package, but do not appear on EDD.

Jack R. Tuschall, Ph.D.  
Laboratory Manager  
Lionville Analytical Laboratories

09.17.92

Date



0000010

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/15/92

CLIENT: WESTINGHOUSE HANFORD  
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9208L584

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-001	B01900	Chromium, Total	12.9	MG/KG	2.1

0000017

U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01900

Lab Name: Roy F. Weston, Inc.

Contract: 6168-02-01

Lab Code: WESTON

Case No: WEST

SAS No.:

SDG No.: CLP584

Matrix (soil/water): SOIL

Lab Sample ID: 9208584001

Level (low/med): LOW

Date Received: 08/26/92

% Solids: 96.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	12.90			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN

Clarity Before:

Texture: FINE

Color After: BROWN

Clarity After:

Artifacts:

Comments: